

# GUIDANCE DOCUMENT

Land Use: Crop - Corn

Cooperator: J. Deere

Tract No.: 1003

Date: October 2005

Field No.: 5

Acres: 50

Selected Treatment Level (circle one):  
RMS; Resource Concern; Practice

Soil: Hagerstown Silt Loam 3-8%

T= 4 t/ac

Assisted By: RDH

## RESOURCE CONCERNS

Benchmark	Soil	Water	Plants	Animals	Air
Continuous corn with fall plowing resulting in poor quail hunting (cover).				Fish and Wildlife – Inadequate Cover/Shelter	
Noxious plant invasion- Johnsongrass infestation which reduces corn yield			Plant Condition - Noxious and Invasive Plants		
			Plant – Condition – Productivity, Health and Vigor		
Sheet & Rill Erosion occurring at 6 tons/ac	Soil Erosion - Sheet and Rill				
Ephemeral gullies occurring	Soil Erosion - Ephemeral Gully				
Using manure as fertilizer - Applies a total of 200 lbs/ac N 150 lbs/ac P	Soil Condition - Contaminants: Animal Waste and Other Organics – P	Water Quality - Excessive Nutrients and Organics in Surface Water			
Neighbors complain about manure odor					Air Quality - Objectionable Odors

# EFFECTS GUIDANCE DOCUMENT FOR ALTERNATIVE RESOURCE CONCERN

## RESOURCE CONCERNS

Alternative #1	Soil			Water	Plants		Animals	Air
	Sheet and Rill Erosion	Ephemeral Gully	Contaminants: Animal Waste and Other Organics – P	Excessive Nutrients and Organics in Surface Water	Noxious and Invasive Plants	Productivity, Health and Vigor	Inadequate Cover/Shelter	Objectionable Odors
Conservation Crop Rotation (328)	+5	+3	-----	+3	+4	+4	+1	---
Contour Farming (330)	+2	+2	-----	+2	-----	+1	-----	---
Nutrient Management (590)	+1	-----	+5	+5	+1	+4	-----	+1
Upland Wildlife Habitat Management (645)	-----	-----	-----	-----	-----	-----	+5	---
Windbreak/Shelterbelt Establishment (380)	+1	+1	-----	-----	-----	+2	+1	+4
<b>TOTAL:</b>	<b>+9</b>	<b>+6</b>	<b>+5</b>	<b>+10</b>	<b>+5</b>	<b>+11</b>	<b>+7</b>	<b>+5</b>

Alternative #2	Soil			Water	Plants		Animals	Air
	Sheet and Rill Erosion	Ephemeral Gully	Contaminants: Animal Waste and Other Organics – P	Excessive Nutrients and Organics in Surface Water	Noxious and Invasive Plants	Productivity, Health and Vigor	Inadequate Cover/Shelter	Objectionable Odors
Residue Management No-Till and Strip Till (329A)	+4	+1	-----	+1	+1	+1	-----	-----
Grassed Waterway (412)	-----	+5	-----	+4	-----	-----	-----	-----
Nutrient Management (590)	+1	-----	+5	+5	+1	+4	-----	+1
Pest Management (595)	-----	-----	-----	-----	+5	+4	-----	-----
Upland Wildlife Habitat Management (645)	-----	-----	-----	-----	-----	-----	+5	---
Windbreak/Shelterbelt Establishment (380)	+1	+1	-----	-----	-----	+2	+1	+4
<b>TOTAL:</b>	<b>+6</b>	<b>+7</b>	<b>+5</b>	<b>+10</b>	<b>+7</b>	<b>+11</b>	<b>+6</b>	<b>+5</b>